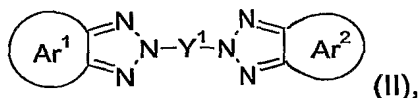
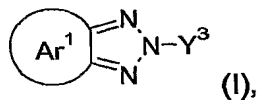


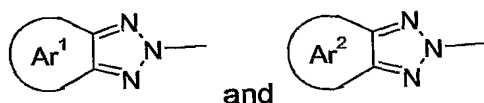
## Claims

1. A 2H-benzotriazole compound of the formula



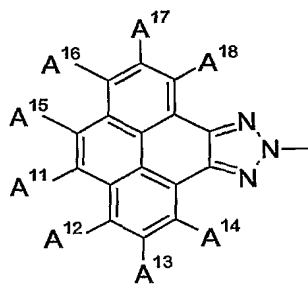
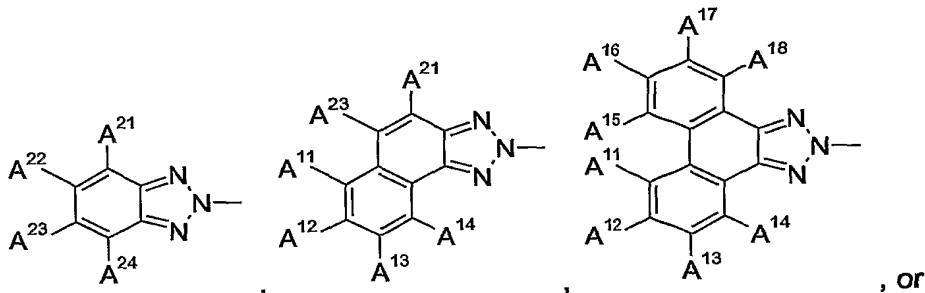
$Y^1$  is a divalent linking group, and

$Y^3$  is  $C_1$ - $C_{25}$ alkyl, especially  $C_1$ - $C_4$ alkyl, aryl or heteroaryl, which can optionally be substituted, especially  $C_6$ - $C_{30}$ aryl, or  $C_2$ - $C_{26}$ heteroaryl, which can optionally be substituted,



are independently of each other a group of

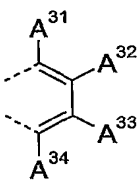
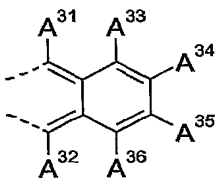
formula

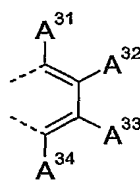
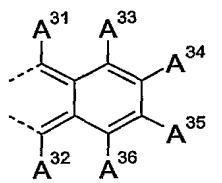


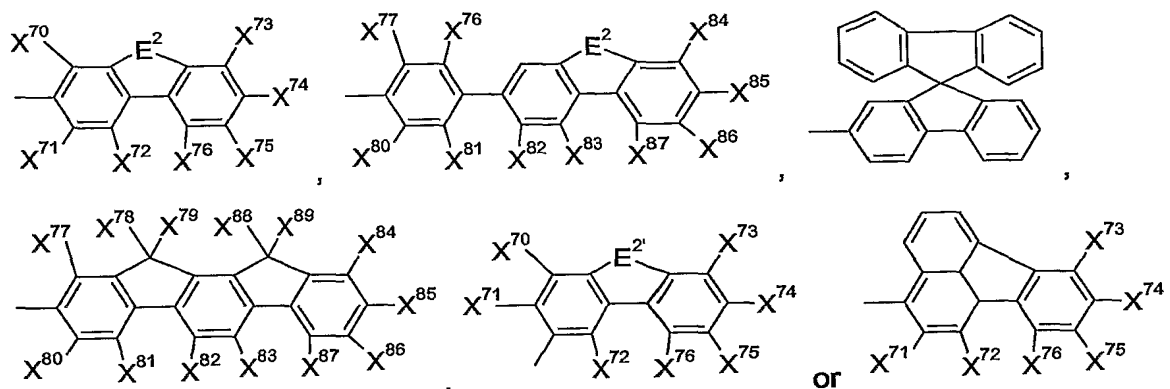
, wherein

$A^{21}$ ,  $A^{22}$ ,  $A^{23}$ ,  $A^{24}$ ,  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$  are independently of each other H, halogen, especially fluorine, hydroxy,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl which is substituted by E and/or interrupted by D,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_5$ - $C_{12}$ cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or -NR<sup>25</sup>-, -NR<sup>25</sup>R<sup>26</sup>,  $C_1$ - $C_{24}$ alkylthio, -PR<sup>32</sup>R<sup>32</sup>,  $C_5$ - $C_{12}$ cycloalkoxy,  $C_5$ - $C_{12}$ cycloalkoxy which is substituted by G,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl which is substituted by G,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ -

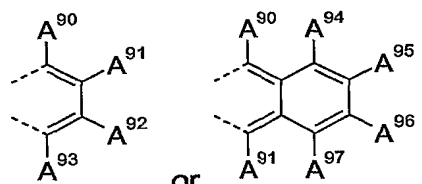
C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, fluorine, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by G, or -CO-R<sup>28</sup>, or

A<sup>22</sup> and A<sup>23</sup> or A<sup>11</sup> and A<sup>23</sup> are a group , or , or two groups A<sup>11</sup>, A<sup>12</sup>, A<sup>13</sup>, A<sup>14</sup>, A<sup>15</sup>, A<sup>16</sup>, A<sup>17</sup> and A<sup>18</sup>, which are neighbouring to each

other, are a group , or , wherein A<sup>31</sup>, A<sup>32</sup>, A<sup>33</sup>, A<sup>34</sup>, A<sup>35</sup> and A<sup>36</sup> are independently of each other H, halogen, hydroxy, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or -NR<sup>25</sup>-, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy which is substituted by G, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by G, or -CO-R<sup>28</sup>, wherein preferably at least one of the substituents A<sup>21</sup>, A<sup>22</sup>, A<sup>23</sup>, A<sup>24</sup>, A<sup>11</sup>, A<sup>12</sup>, A<sup>13</sup>, A<sup>14</sup>, A<sup>15</sup>, A<sup>16</sup>, A<sup>17</sup> and A<sup>18</sup> is C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by fluorine, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; or C<sub>2</sub>-C<sub>26</sub>heteroaryl, especially thiophenyl, pyrrolyl, furanyl, benzoxazolyl, or benzothiazolyl, which is substituted by fluorine, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl, or a group of formula



wherein  $X^{70}$ ,  $X^{71}$ ,  $X^{72}$ ,  $X^{73}$ ,  $X^{74}$ ,  $X^{75}$ ,  $X^{76}$ ,  $X^{77}$ ,  $X^{80}$ ,  $X^{81}$ ,  $X^{82}$ ,  $X^{83}$ ,  $X^{84}$ ,  $X^{85}$ ,  $X^{86}$ , and  $X^{87}$  are independently of each other E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or -NR<sup>25</sup>-, -NR<sup>25</sup>R<sup>26</sup>, C<sub>1</sub>-C<sub>24</sub>alkylthio, -PR<sup>32</sup>R<sup>32</sup>, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy which is substituted by G, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, fluorine, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by G, or -CO-R<sup>28</sup>, or two groups  $X^{70}$ ,  $X^{71}$ ,  $X^{72}$ ,  $X^{73}$ ,  $X^{74}$ ,  $X^{75}$ ,  $X^{76}$ ,  $X^{77}$ ,  $X^{80}$ ,  $X^{81}$ ,  $X^{82}$ ,  $X^{83}$ ,  $X^{84}$ ,  $X^{85}$ ,  $X^{86}$ , and  $X^{87}$ ,



which are neighbouring to each other, are a group wherein  $A^{90}$ ,  $A^{91}$ ,  $A^{92}$ ,  $A^{93}$ ,  $A^{94}$ ,  $A^{95}$ ,  $A^{96}$  and  $A^{97}$  are independently of each other H, halogen, especially fluorine, hydroxy, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or -NR<sup>25</sup>-, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy which is substituted by G, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-

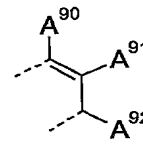
C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by G, or -CO-R<sup>28</sup>,

E<sup>2</sup> is -CR<sup>23</sup>=CR<sup>24</sup>-, especially -CX<sup>68</sup>X<sup>69</sup>-,

E<sup>2</sup> is -SiR<sup>30</sup>R<sup>31</sup>-, -POR<sup>32</sup>-, especially -S-, -O-, or -NR<sup>25'</sup>-, wherein R<sup>25'</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, or

C<sub>6</sub>-C<sub>10</sub>aryl,  
X<sup>68</sup>, X<sup>69</sup>, X<sup>78</sup>, X<sup>79</sup>, X<sup>88</sup> and X<sup>89</sup> are independently of each other C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, or C<sub>7</sub>-C<sub>25</sub>aralkyl, or

X<sup>78</sup> and X<sup>79</sup>, and/or X<sup>88</sup> and X<sup>89</sup> form a ring, especially a five- or six-membered ring, or



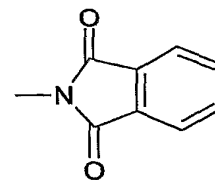
X<sup>68</sup> and X<sup>70</sup>, X<sup>69</sup> and X<sup>73</sup>, X<sup>77</sup> and X<sup>78</sup> and/or X<sup>84</sup> and X<sup>89</sup> are a group

D is -CO-; -COO-; -S-; -SO-; -SO<sub>2</sub>-; -O-; -NR<sup>25</sup>-; -SiR<sup>30</sup>R<sup>31</sup>-; -POR<sup>32</sup>-; -CR<sup>23</sup>=CR<sup>24</sup>-, or -C≡C-; and

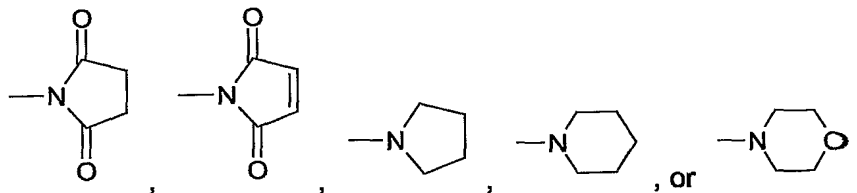
E is -OR<sup>29</sup>; -SR<sup>29</sup>; -NR<sup>25</sup>R<sup>26</sup>; -COR<sup>28</sup>; -COOR<sup>27</sup>; -CONR<sup>25</sup>R<sup>26</sup>; -CN; -OCOOR<sup>27</sup>; or halogen;

G is E, or C<sub>1</sub>-C<sub>24</sub>alkyl, wherein

R<sup>23</sup>, R<sup>24</sup>, R<sup>25</sup> and R<sup>26</sup> are independently of each other H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-; or



R<sup>25</sup> and R<sup>26</sup> together form a five or six membered ring, in particular



R<sup>27</sup> and R<sup>28</sup> are independently of each other H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-,

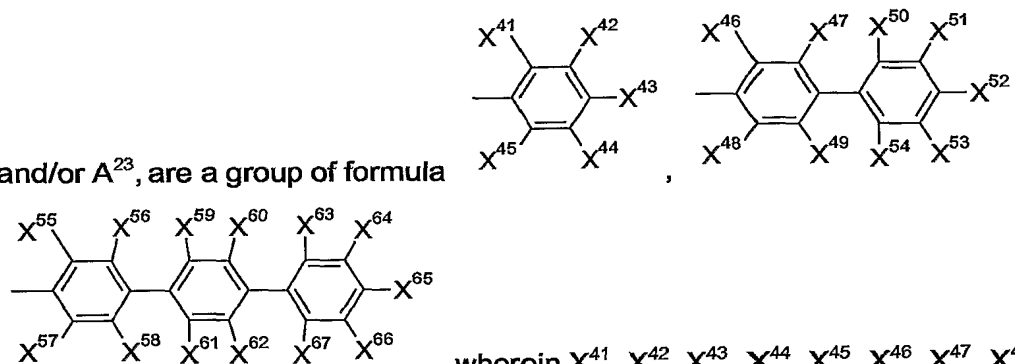
R<sup>29</sup> is H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl, which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-,

$R^{30}$  and  $R^{31}$  are independently of each other  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{18}$ aryl, or  $C_6$ - $C_{18}$ aryl, which is substituted by  $C_1$ - $C_{24}$ alkyl, and

$R^{32}$  is  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{18}$ aryl, or  $C_6$ - $C_{18}$ aryl, which is substituted by  $C_1$ - $C_{24}$ alkyl.

- 5 2. A 2H-benzotriazole compound according to claim 1, wherein at least one of the substituents  $A^{21}$ ,  $A^{22}$ ,  $A^{23}$ ,  $A^{24}$ ,  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$ , especially  $A^{12}$ ,  $A^{21}$

and/or  $A^{23}$ , are a group of formula



, wherein  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  are

- 10 independently of each other H, fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl, or  $C_1$ - $C_{24}$ haloalkyl,  $C_1$ - $C_{24}$ alkyl, which is optionally substituted by E and/or interrupted by D,  $C_1$ - $C_{24}$ alkenyl, which is optionally substituted by E,  $C_5$ - $C_{12}$ cycloalkyl, which is optionally substituted by G,  $C_5$ - $C_{12}$ cycloalkoxy, which is optionally substituted by G,  $C_6$ - $C_{18}$ aryl, which is optionally substituted by G,  $C_1$ - $C_{24}$ alkoxy, which is optionally substituted by E and/or interrupted by D,  $C_6$ - $C_{18}$ aryloxy, which is optionally substituted by G,  $C_7$ - $C_{18}$ arylalkoxy, which is optionally substituted by G,  $C_1$ - $C_{24}$ alkylthio, which is optionally substituted by E and/or interrupted by D,  $C_2$ - $C_{20}$ heteroaryl which is substituted by G, or  $C_6$ - $C_{18}$ aralkyl, which is optionally substituted by G, or
- 15

- 20  $X^{43}$ ,  $X^{65}$  or  $X^{62}$  are a group of formula
- 
- , or
- two groups  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$ , which are neighbouring to each other,

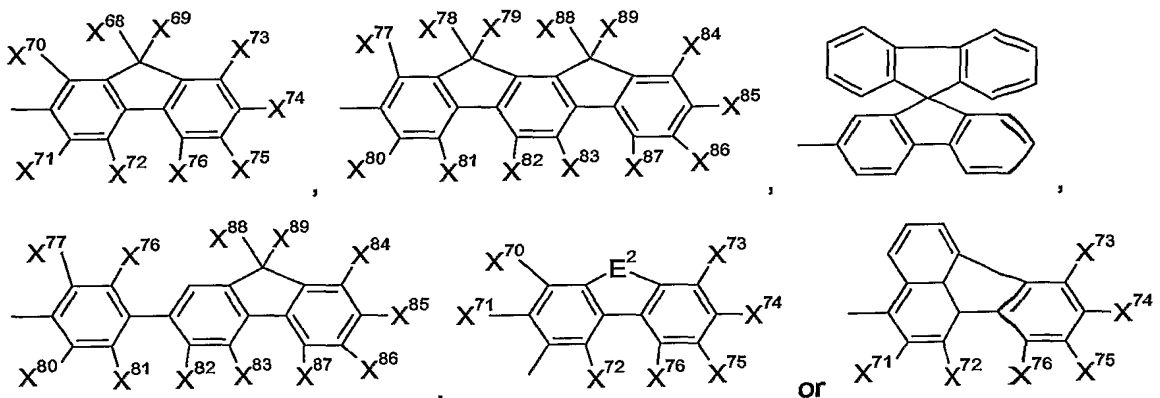
are a group

, or

, wherein  $A^{90}$ ,  $A^{91}$ ,  $A^{92}$ ,  $A^{93}$ ,  $A^{94}$ ,  $A^{95}$ ,  $A^{96}$  and  $A^{97}$  are independently of each other H, halogen, hydroxy,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl which

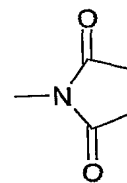
is substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or -NR<sup>25</sup>-, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy which is substituted by G, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by E, or -CO-R<sup>28</sup>, wherein R<sup>25</sup>, R<sup>26</sup> and R<sup>28</sup>, D, E and G are as defined in claim 2 and preferably at least one of the substituents X<sup>41</sup>, X<sup>42</sup>, X<sup>43</sup>, X<sup>44</sup>, X<sup>45</sup>, X<sup>46</sup>, X<sup>47</sup>, X<sup>48</sup>, X<sup>49</sup>, X<sup>50</sup>, X<sup>51</sup>, X<sup>52</sup>, X<sup>53</sup>, X<sup>54</sup>, X<sup>55</sup>, X<sup>56</sup>, X<sup>57</sup>, X<sup>58</sup>, X<sup>59</sup>, X<sup>60</sup>, X<sup>61</sup>, X<sup>62</sup>, X<sup>63</sup>, X<sup>64</sup>, X<sup>65</sup>, X<sup>66</sup> and X<sup>67</sup> is fluorine, -NR<sup>25</sup>R<sup>26</sup>, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl.

3. A 2H-benzotriazole compound according to claim 1, wherein at least one of the substituents A<sup>21</sup>, A<sup>22</sup>, A<sup>23</sup>, A<sup>24</sup>, A<sup>11</sup>, A<sup>12</sup>, A<sup>13</sup>, A<sup>14</sup>, A<sup>15</sup>, A<sup>16</sup>, A<sup>17</sup> and A<sup>18</sup>, especially A<sup>12</sup> and/or A<sup>23</sup> are a group of formula

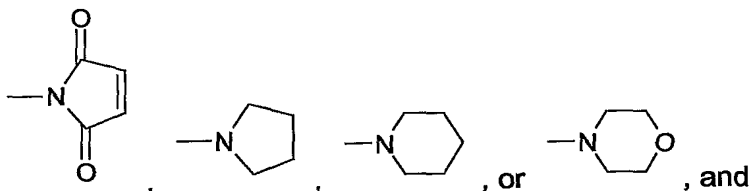


wherein

X<sup>68</sup>, X<sup>69</sup>, X<sup>78</sup>, X<sup>79</sup>, X<sup>88</sup> and X<sup>89</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl, especially C<sub>1</sub>-C<sub>12</sub>alkyl, which can be interrupted by one or two oxygen atoms, X<sup>70</sup>, X<sup>71</sup>, X<sup>72</sup>, X<sup>73</sup>, X<sup>74</sup>, X<sup>75</sup>, X<sup>76</sup>, X<sup>77</sup>, X<sup>80</sup>, X<sup>81</sup>, X<sup>82</sup>, X<sup>83</sup>, X<sup>84</sup>, X<sup>85</sup>, X<sup>86</sup> and X<sup>87</sup> are independently of each other H, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>6</sub>-C<sub>10</sub>aryl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, wherein R<sup>25</sup> and R<sup>26</sup> are independently of each other H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>7</sub>-C<sub>18</sub>aralkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl, and R<sup>27</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, or

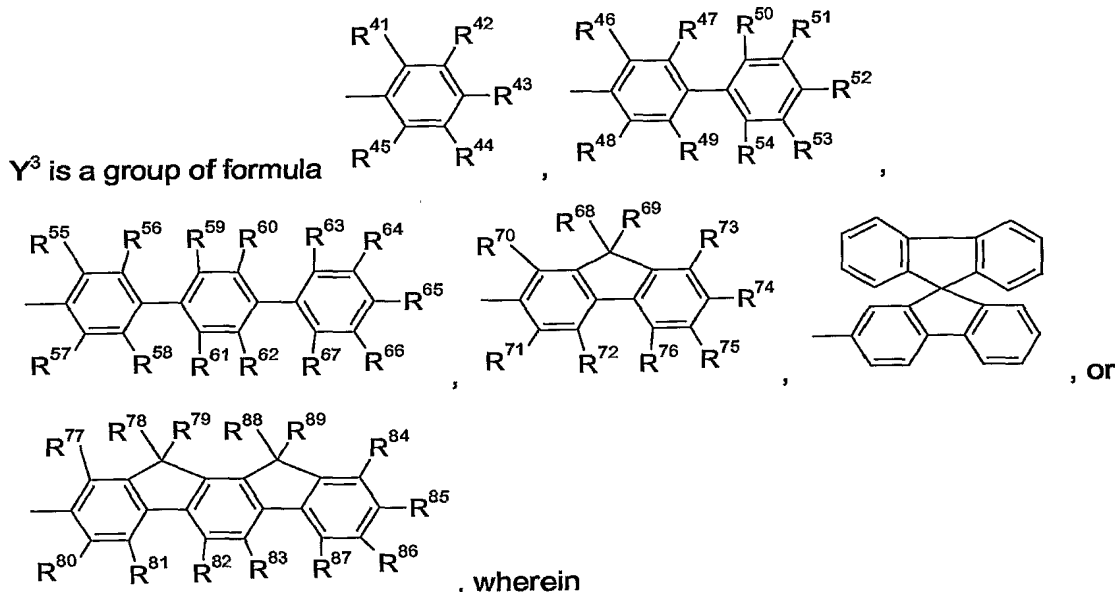


$R^{25}$  and  $R^{26}$  together form a five or six membered ring, in particular



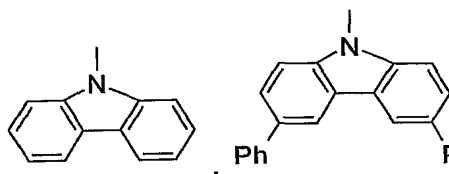
$E^2$  is -S-, -O-, or -NR<sup>25'</sup>-, wherein  $R^{25'}$  is C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>6</sub>-C<sub>10</sub>aryl.

5 4. A 2H-benzotriazole compound according to claim 1, wherein



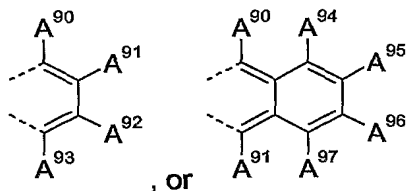
10  $R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86},$  and  $R^{87}$  are independently of each other H, fluorine, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, -NR<sup>25</sup>R<sup>26</sup>, C<sub>1</sub>-C<sub>24</sub>alkyl, which is optionally substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>alkenyl, which is optionally substituted by E, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, which is optionally substituted by G, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, which is optionally substituted by G, C<sub>6</sub>-C<sub>18</sub>aryl, which is optionally substituted by G, C<sub>1</sub>-C<sub>24</sub>alkoxy, which is optionally substituted by E and/or interrupted by D, C<sub>6</sub>-C<sub>18</sub>aryloxy, which is optionally substituted by G, C<sub>7</sub>-C<sub>18</sub>arylalkoxy, which is optionally substituted by G, C<sub>1</sub>-C<sub>24</sub>alkylthio, which is optionally substituted by E and/or interrupted by D, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, or C<sub>6</sub>-C<sub>18</sub>aralkyl, which is optionally substituted by G, or

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$R^{43}$ ,  $R^{65}$  or  $R^{52}$  are a group of formula

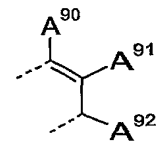
two groups  $R^{41}$ ,  $R^{42}$ ,  $R^{43}$ ,  $R^{44}$ ,  $R^{45}$ ,  $R^{46}$ ,  $R^{47}$ ,  $R^{48}$ ,  $R^{49}$ ,  $R^{50}$ ,  $R^{51}$ ,  $R^{52}$ ,  $R^{53}$ ,  $R^{54}$ ,  $R^{55}$ ,  $R^{56}$ ,  $R^{57}$ ,  $R^{58}$ ,  $R^{59}$ ,  $R^{60}$ ,  $R^{61}$ ,  $R^{62}$ ,  $R^{63}$ ,  $R^{64}$ ,  $R^{65}$ ,  $R^{66}$ ,  $R^{67}$ ,  $R^{70}$ ,  $R^{71}$ ,  $R^{72}$ ,  $R^{73}$ ,  $R^{74}$ ,  $R^{75}$ ,  $R^{76}$ ,  $R^{77}$ ,  $R^{80}$ ,  $R^{81}$ ,  $R^{82}$ ,  $R^{83}$ ,  $R^{84}$ ,  $R^{85}$ ,  $R^{86}$ , and  $R^{87}$ , which are neighbouring to each other, are a group



, or , wherein  $A^{90}$ ,  $A^{91}$ ,  $A^{92}$ ,  $A^{93}$ ,  $A^{94}$ ,  $A^{95}$ ,  $A^{96}$  and  $A^{97}$  are independently of each other H, halogen, especially fluorine,  $-NR^{25}R^{26}$ , hydroxy,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl which is substituted by E and/or interrupted by D,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_5$ - $C_{12}$ cycloalkyl which is substituted by G and/or interrupted by S-, -O-, or  $-NR^{25}$ -,  $C_5$ - $C_{12}$ cycloalkoxy,  $C_5$ - $C_{12}$ cycloalkoxy which is substituted by G,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl which is substituted by G,  $C_2$ - $C_{20}$ heteroaryl,  $C_2$ - $C_{20}$ heteroaryl which is substituted by G,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkoxy which is substituted by E and/or interrupted by D,  $C_7$ - $C_{25}$ aralkyl,  $C_7$ - $C_{25}$ aralkyl, which is substituted by G,  $C_7$ - $C_{25}$ aralkoxy,  $C_7$ - $C_{25}$ aralkoxy which is substituted by G, or  $-CO-R^{28}$ ,

$R^{68}$ ,  $R^{69}$ ,  $R^{78}$ ,  $R^{79}$ ,  $R^{88}$  and  $R^{89}$  are independently of each other  $C_1$ - $C_{18}$  alkyl,  $C_1$ - $C_{24}$ alkyl which is substituted by E and/or interrupted by D,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl which is substituted by G,  $C_2$ - $C_{20}$ heteroaryl,  $C_2$ - $C_{20}$ heteroaryl which is substituted by G,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkoxy which is substituted by E and/or interrupted by D, or  $C_7$ - $C_{25}$ aralkyl, or

$R^{68}$  and  $R^{69}$ ,  $R^{78}$  and  $R^{79}$ , and/or  $R^{88}$  and  $R^{89}$  form a ring, especially a five- or six-membered ring, or



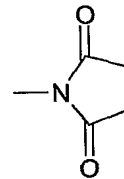
$R^{68}$  and  $R^{70}$ ,  $R^{69}$  and  $R^{73}$ ,  $R^{77}$  and  $R^{78}$  and/or  $R^{84}$  and  $R^{89}$  are a group

D is  $-CO-$ ;  $-COO-$ ;  $-S-$ ;  $-SO-$ ;  $-SO_2-$ ;  $-O-$ ;  $-NR^{25}$ ;  $-SiR^{30}R^{31}$ ;  $-POR^{32}$ ;  $-CR^{23}=CR^{24}$ ; or  $-C\equiv C-$ ; and

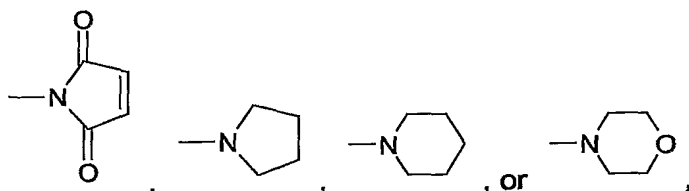
E is  $-OR^{29}$ ;  $-SR^{29}$ ;  $-NR^{25}R^{26}$ ;  $-COR^{28}$ ;  $-COOR^{27}$ ;  $-CONR^{25}R^{26}$ ;  $-CN$ ;  $-OCOOR^{27}$ ; or halogen; G is E, or  $C_1$ - $C_{24}$ alkyl; wherein



$R^{23}$ ,  $R^{24}$ ,  $R^{25}$  and  $R^{26}$  are independently of each other H;  $C_6-C_{18}$ aryl;  $C_6-C_{18}$ aryl which is substituted by  $C_1-C_{24}$ alkyl, or  $C_1-C_{24}$ alkoxy;  $C_1-C_{24}$ alkyl; or  $C_1-C_{24}$ alkyl which is interrupted by  $-O-$ ; or



$R^{25}$  and  $R^{26}$  together form a five or six membered ring, in particular



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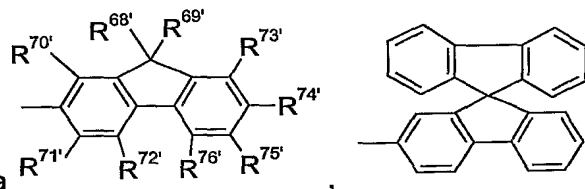
$R^{27}$  and  $R^{28}$  are independently of each other H;  $C_6-C_{18}$ aryl;  $C_6-C_{18}$ aryl which is substituted by  $C_1-C_{24}$ alkyl, or  $C_1-C_{24}$ alkoxy;  $C_1-C_{24}$ alkyl; or  $C_1-C_{24}$ alkyl which is interrupted by  $-O-$ ,

$R^{29}$  is H;  $C_6-C_{18}$ aryl;  $C_6-C_{18}$ aryl, which is substituted by  $C_1-C_{24}$ alkyl, or  $C_1-C_{24}$ alkoxy;  $C_1-C_{24}$ alkyl; or  $C_1-C_{24}$ alkyl which is interrupted by  $-O-$ ,

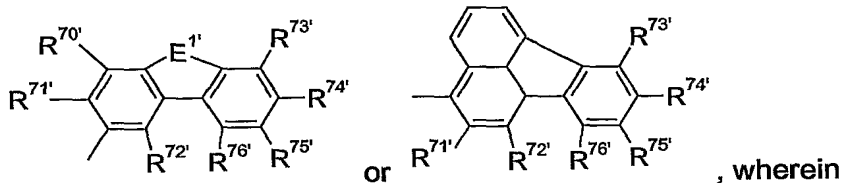
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$R^{30}$  and  $R^{31}$  are independently of each other  $C_1-C_{24}$ alkyl,  $C_6-C_{18}$ aryl, or  $C_6-C_{18}$ aryl, which is substituted by  $C_1-C_{24}$ alkyl, and

$R^{32}$  is  $C_1-C_{24}$ alkyl,  $C_6-C_{18}$ aryl, or  $C_6-C_{18}$ aryl, which is substituted by  $C_1-C_{24}$ alkyl, or



$R^{43}$ , or  $R^{52}$  are a group of formula



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$R^{68}$  and  $R^{69}$  are independently of each other  $C_1-C_{24}$ alkyl, especially  $C_1-C_{12}$ alkyl, which can be interrupted by one or two oxygen atoms,

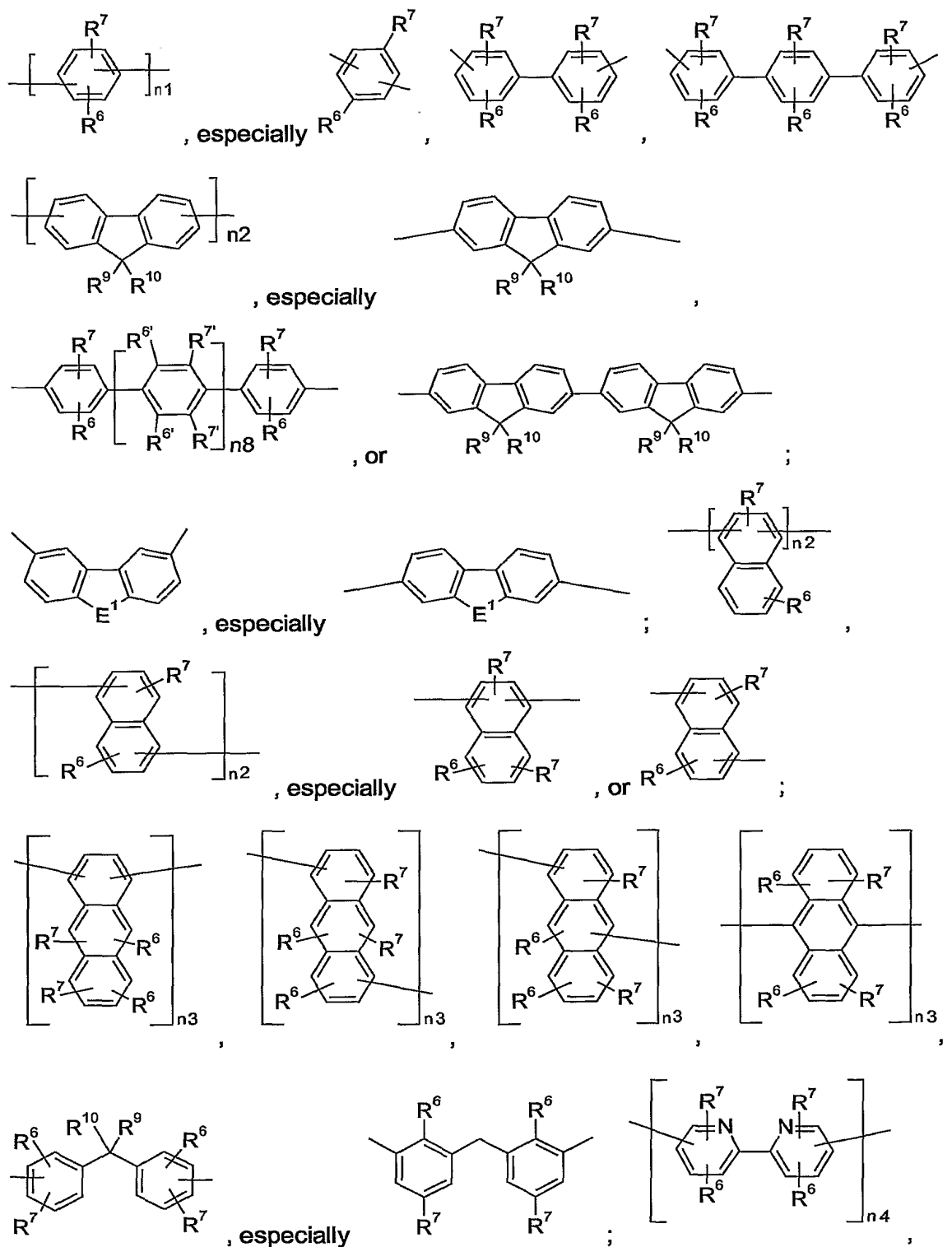
$R^{70}$ ,  $R^{71}$ ,  $R^{72}$ ,  $R^{73}$ ,  $R^{74}$ ,  $R^{75}$  and  $R^{76}$  are independently of each other H, CN,  $C_1-C_{24}$ alkyl,  $C_6-C_{10}$ aryl,  $C_1-C_{24}$ alkoxy,  $C_1-C_{24}$ alkylthio,  $-NR^{25'}R^{26'}$ ,  $-CONR^{25'}R^{26'}$ , or  $-COOR^{27'}$ ,

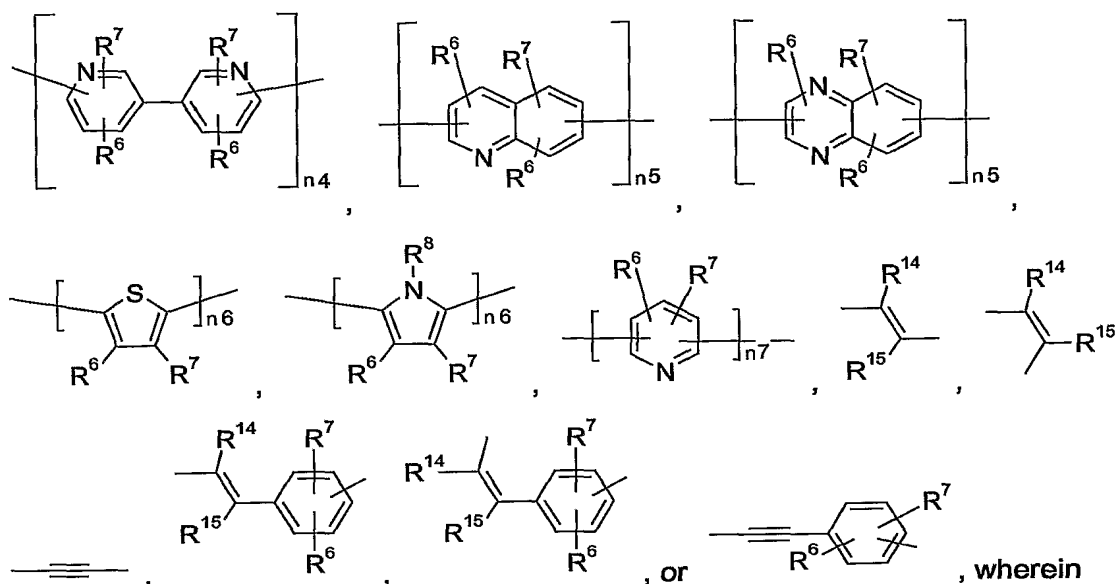
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$R^{25'}$  and  $R^{26'}$  are independently of each other H,  $C_6-C_{18}$ aryl,  $C_7-C_{18}$ aralkyl, or  $C_1-C_{24}$ alkyl, and  $R^{27'}$  is  $C_1-C_{24}$ alkyl; and

$E^1$  is  $-S-$ ,  $-O-$ , or  $-NR^{25'}$ , wherein  $R^{25'}$  is  $C_1-C_{24}$ alkyl, or  $C_6-C_{10}$ aryl.

5. A 2H-benzotriazole compound to claim 1, wherein Y<sup>1</sup> is a group of formula





$n_1, n_2, n_3, n_4, n_5, n_6, n_7$  and  $n_8$  are 1, 2, or 3, in particular 1,

$E^1$  is  $-S-$ ,  $-O-$ , or  $-NR^{25'}$ , wherein  $R^{25'}$  is  $C_1-C_{24}$ alkyl, or  $C_6-C_{10}$ aryl,

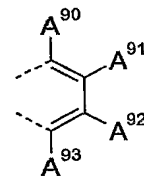
$R^6$  and  $R^7$  are independently of each other H, halogen, especially fluorine,  $-NR^{25}R^{26}$ ,

hydroxy,  $C_1-C_{24}$ alkyl,  $C_1-C_{24}$ alkyl which is substituted by E and/or interrupted by D,  $C_1-C_{24}$ perfluoroalkyl,  $C_6-C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_5-C_{12}$ cycloalkyl,

$C_5-C_{12}$ cycloalkyl which is substituted by G and/or interrupted by S-,  $-O-$ , or  $-NR^{25}-$ ,  $C_5-C_{12}$ cycloalkoxy,  $C_5-C_{12}$ cycloalkoxy which is substituted by G,  $C_6-C_{24}$ aryl,  $C_6-C_{24}$ aryl

which is substituted by G,  $C_2-C_{20}$ heteroaryl,  $C_2-C_{20}$ heteroaryl which is substituted by G,  $C_2-C_{24}$ alkenyl,  $C_2-C_{24}$ alkynyl,  $C_1-C_{24}$ alkoxy,  $C_1-C_{24}$ alkoxy which is substituted by E

and/or interrupted by D,  $C_7-C_{25}$ aralkyl,  $C_7-C_{25}$ aralkyl, which is substituted by G,  $C_7-C_{25}$ aralkoxy,  $C_7-C_{25}$ aralkoxy which is substituted by G, or  $-CO-R^{28}$ ,



$R^6$  and  $R^7$  have the meaning of  $R^6$ , or together form a group, wherein  $A^{90}$ ,

$A^{91}$ ,  $A^{92}$ , and  $A^{93}$  are independently of each other H, halogen, hydroxy,  $C_1-C_{24}$ alkyl,  $C_1-C_{24}$ alkyl which is substituted by E and/or interrupted by D,  $C_1-C_{24}$ perfluoroalkyl,  $C_6-C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_5-C_{12}$ cycloalkyl,  $C_5-C_{12}$ cycloalkyl which is substituted by G and/or interrupted by S-,  $-O-$ , or  $-NR^{25}-$ ,  $C_5-C_{12}$ cycloalkoxy,  $C_5-C_{12}$ cycloalkoxy which is substituted by G,  $C_6-C_{24}$ aryl,  $C_6-C_{24}$ aryl which is substituted by G,  $C_2-C_{20}$ heteroaryl,  $C_2-C_{20}$ heteroaryl which is substituted by G,  $C_2-C_{24}$ alkenyl,  $C_2-C_{24}$ alkynyl,  $C_1-C_{24}$ alkoxy,  $C_1-C_{24}$ alkoxy which is substituted by E and/or interrupted by

D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, which is substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy which is substituted by E, or -CO-R<sup>28</sup>,

R<sup>8</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>6</sub>-C<sub>24</sub>aryl, or C<sub>7</sub>-C<sub>25</sub>aralkyl,

5 R<sup>9</sup> and R<sup>10</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy which is substituted by E and/or interrupted by D, or C<sub>7</sub>-C<sub>25</sub>aralkyl, or

10 R<sup>9</sup> and R<sup>10</sup> form a ring, especially a five- or six-membered ring,

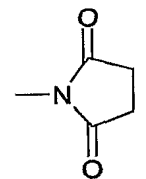
R<sup>14</sup> and R<sup>15</sup> are independently of each other H, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl which is substituted by E and/or interrupted by D, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl which is substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, or C<sub>2</sub>-C<sub>20</sub>heteroaryl which is substituted by G,

D is -CO-, -COO-, -S-, -SO-, -SO<sub>2</sub>-, -O-, -NR<sup>25</sup>-, -SiR<sup>30</sup>R<sup>31</sup>-, -POR<sup>32</sup>-, -CR<sup>23</sup>=CR<sup>24</sup>-, or -

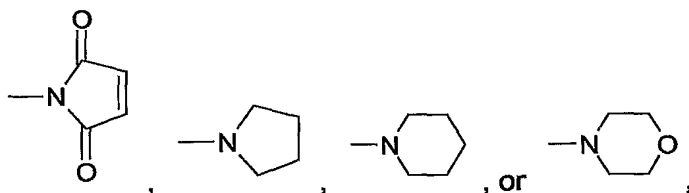
15 C≡C-, G is E, or C<sub>1</sub>-C<sub>24</sub>alkyl, and

E is -OR<sup>29</sup>-, -SR<sup>29</sup>-, -NR<sup>25</sup>R<sup>26</sup>-, -COR<sup>28</sup>-, -COOR<sup>27</sup>-, -CONR<sup>25</sup>R<sup>26</sup>-, -CN-, -OCOOR<sup>27</sup>-, or halogen, wherein

20 R<sup>23</sup>, R<sup>24</sup>, R<sup>25</sup> and R<sup>26</sup> are independently of each other H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>6</sub>-C<sub>18</sub>aryl which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-, or



R<sup>25</sup> and R<sup>26</sup> together form a five or six membered ring, in particular



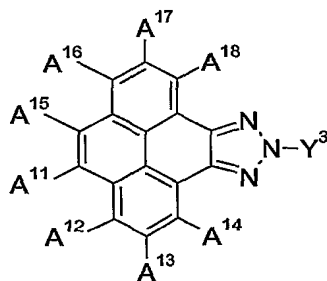
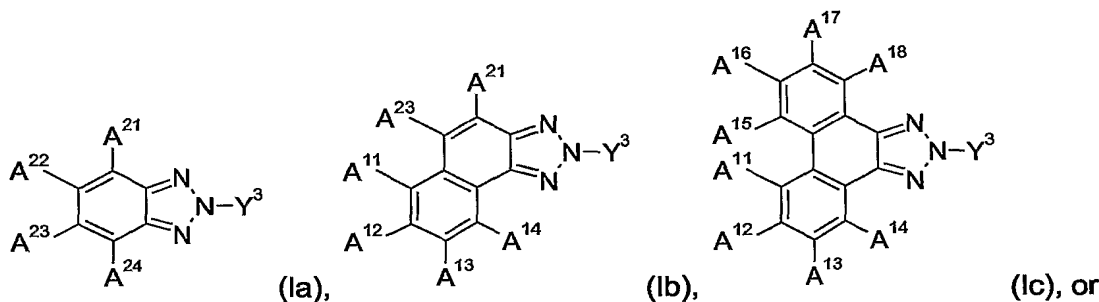
25 R<sup>27</sup> and R<sup>28</sup> are independently of each other H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>6</sub>-C<sub>18</sub>aryl which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-,

R<sup>29</sup> is H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>6</sub>-C<sub>18</sub>aryl, which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl which is interrupted by -O-,

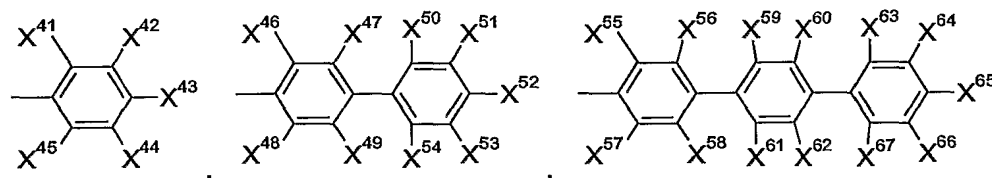
R<sup>30</sup> and R<sup>31</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>6</sub>-C<sub>18</sub>aryl, or C<sub>6</sub>-C<sub>18</sub>aryl, which is substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, and

$R^{32}$  is  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{18}$ aryl, or  $C_6$ - $C_{18}$ aryl, which is substituted by  $C_1$ - $C_{24}$ alkyl.

6. A 2H-benzotriazole compound to claim 1, wherein the 2H-benzotriazole compound is a compound of formula



(ld), wherein  $A^{12}$  or  $A^{23}$  are a group of formula



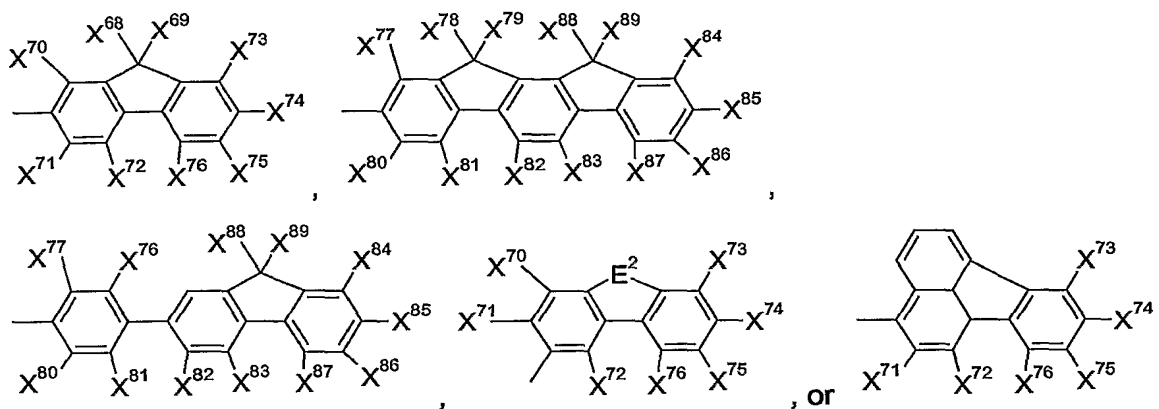
10  
15

, wherein  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  are independently of each other are independently of each other H, CN, fluorine,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_1$ - $C_{24}$ haloalkyl,  $C_6$ - $C_{10}$ aryl, which can optionally be substituted by one, or more  $C_1$ - $C_8$ alkyl, or  $C_1$ - $C_8$ alkoxy groups;  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ , or two groups  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$ , which are neighbouring to each other,



20

are a group , or , wherein preferably at least one of the substituents  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  is fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl, or  $C_1$ - $C_{24}$ haloalkyl, or  $A^{12}$  and  $A^{23}$  are a group of formula



wherein

$X^{68}$ ,  $X^{69}$ ,  $X^{78}$ ,  $X^{79}$ ,  $X^{88}$  and  $X^{89}$  are independently of each other  $C_1$ - $C_{24}$ alkyl, especially

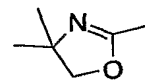
5  $C_1$ - $C_{12}$ alkyl, which can be interrupted by one or two oxygen atoms,

$X^{70}$ ,  $X^{71}$ ,  $X^{72}$ ,  $X^{73}$ ,  $X^{74}$ ,  $X^{75}$ ,  $X^{76}$ ,  $X^{77}$ ,  $X^{80}$ ,  $X^{81}$ ,  $X^{82}$ ,  $X^{83}$ ,  $X^{84}$ ,  $X^{85}$ ,  $X^{86}$  and  $X^{87}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl, which can optionally be substituted by one, or more  $C_1$ - $C_8$ alkyl, or  $C_1$ - $C_8$ alkoxy groups;  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,

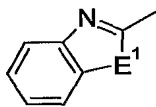
10  $E^2$  is  $-S-$ ,  $-O-$ , or  $-NR^{25'}$ , wherein  $R^{25'}$  is  $C_1$ - $C_{24}$ alkyl, or  $C_6$ - $C_{10}$ aryl,

$A^{21}$ ,  $A^{22}$  and  $A^{24}$  are independently of each other hydrogen, halogen, especially fluorine,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ haloalkyl,  $C_6$ - $C_{18}$ aryl, which can optionally be substituted by one, or more  $C_1$ - $C_8$ alkyl, or  $C_1$ - $C_8$ alkoxy groups;  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ ,

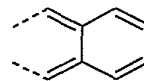
15 or  $-COOR^{27}$ , or  $C_2$ - $C_{10}$ heteroaryl, especially a group of formula



or



, or



$A^{22}$  and  $A^{23}$  or  $A^{11}$  and  $A^{23}$  are a group of formula

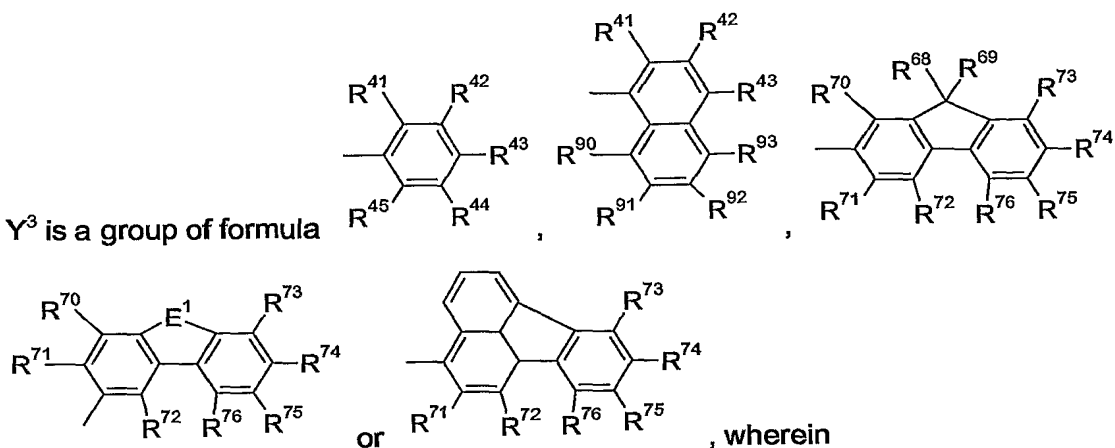
, or

$A^{11}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$ , and  $A^{18}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl,  $C_1$ - $C_{24}$ haloalkyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $C_6$ - $C_{18}$ aryl,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ , or  $C_2$ - $C_{10}$ heteroaryl, wherein

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$R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6$ - $C_{18}$ aryl,  $C_7$ - $C_{18}$ aralkyl, or  $C_1$ - $C_{24}$ alkyl,  $R^{27}$  is  $C_1$ - $C_{24}$ alkyl, and

$Y^3$  is a group of formula

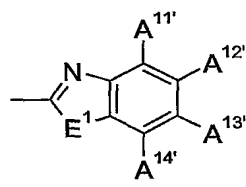


$R^{41}$  is hydrogen,  $C_1$ - $C_{24}$ alkoxy, or  $-OC_7$ - $C_{18}$ aralkyl,

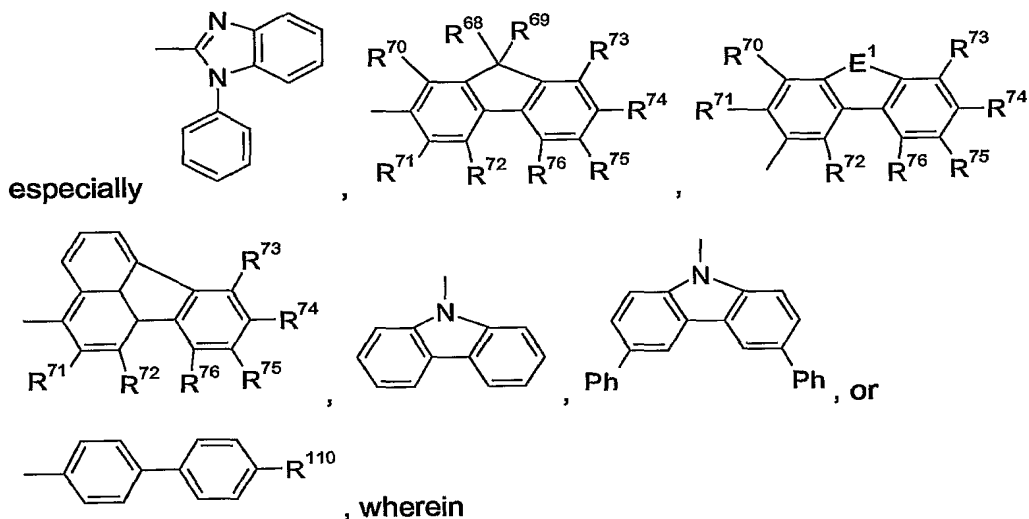
$R^{42}$  is hydrogen, or  $C_1$ - $C_{24}$ alkyl,

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$R^{43}$  is hydrogen, halogen,  $-\text{CONR}^{25}\text{R}^{26}$ ,  $-\text{COOR}^{27}$ ,



especially

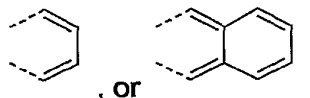


$A^{11'}$ ,  $A^{12'}$ ,  $A^{13'}$ , and  $A^{14'}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-\text{NR}^{25}\text{R}^{26}$ ,  $-\text{CONR}^{25}\text{R}^{26}$ , or  $-\text{COOR}^{27}$ ,

$E^1$  is  $-\text{S}-$ ,  $-\text{O}-$ , or  $-\text{NR}^{25}-$ , wherein  $R^{25}$  is  $C_1$ - $C_{24}$ alkyl, or  $C_6$ - $C_{10}$ aryl,

$R^{110}$  is H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-\text{NR}^{25}\text{R}^{26}$ ,  $-\text{CONR}^{25}\text{R}^{26}$ , or  $-\text{COOR}^{27}$ , or

$R^{42}$  and  $R^{43}$  are a group of formula



$R^{44}$  is hydrogen, or  $C_1$ - $C_{24}$ alkyl,

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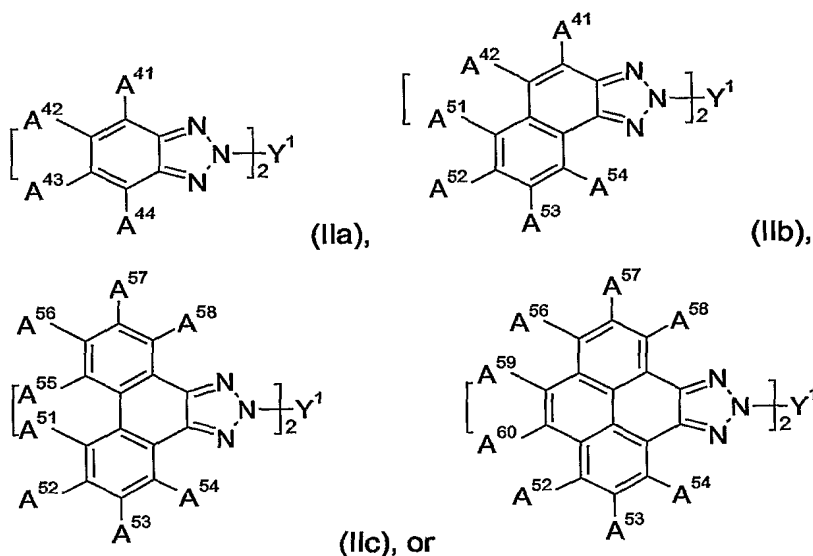
$R^{45}$  is hydrogen, or  $C_1$ - $C_{24}$ alkyl,

$R^{68}$  and  $R^{69}$  are independently of each other  $C_1$ - $C_{24}$ alkyl, especially  $C_1$ - $C_{12}$ alkyl, which can be interrupted by one or two oxygen atoms,

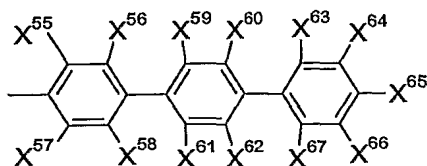
$R^{70}$ ,  $R^{71}$ ,  $R^{72}$ ,  $R^{73}$ ,  $R^{74}$ ,  $R^{75}$ ,  $R^{76}$ ,  $R^{90}$ ,  $R^{91}$ ,  $R^{92}$ , and  $R^{93}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,

$R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6$ - $C_{18}$ aryl,  $C_7$ - $C_{18}$ aralkyl, or  $C_1$ - $C_{24}$ alkyl, and  $R^{27}$  is  $C_1$ - $C_{24}$ alkyl.

- 10 7. A 2H-benzotriazole compound according to claim 1, wherein the 2H-benzotriazole compound is a compound of formula



wherein  $A^{52}$  and  $A^{43}$  are a group of formula





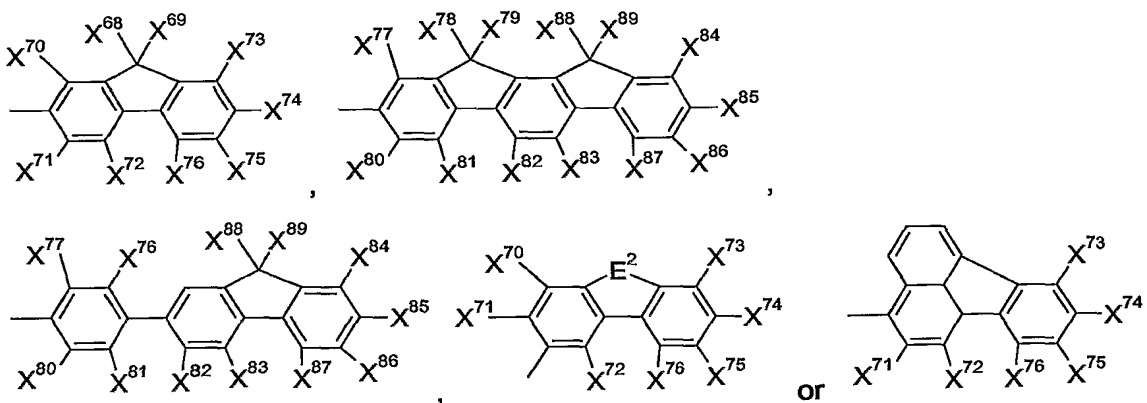
, wherein  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  are independently of each other are independently of each other H, fluorine, CN,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl, or  $C_1$ - $C_{24}$ haloalkyl,  $C_6$ - $C_{10}$ aryl, which can optionally be substituted by one, or more  $C_1$ - $C_8$ alkyl, or  $C_1$ - $C_8$ alkoxy groups;



**C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, or two groups X<sup>41</sup>, X<sup>42</sup>, X<sup>43</sup>, X<sup>44</sup>, X<sup>45</sup>, X<sup>46</sup>, X<sup>47</sup>, X<sup>48</sup>, X<sup>49</sup>, X<sup>50</sup>, X<sup>51</sup>, X<sup>52</sup>, X<sup>53</sup>, X<sup>54</sup>, X<sup>55</sup>, X<sup>56</sup>, X<sup>57</sup>, X<sup>58</sup>, X<sup>59</sup>, X<sup>60</sup>, X<sup>61</sup>, X<sup>62</sup>, X<sup>63</sup>, X<sup>64</sup>, X<sup>65</sup>, X<sup>66</sup> and X<sup>67</sup>, which are neighbouring to each other,**



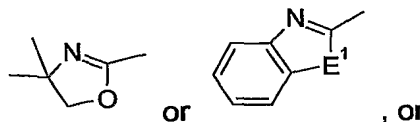
are a group , or , wherein preferably at least one of the substituents  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  is fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl, especially pentafluorophenyl, or  $C_1$ - $C_{24}$ haloalkyl, or  $A^{43}$  or  $A^{52}$  are a group of formula



wherein

$X^{68}$ ,  $X^{69}$ ,  $X^{78}$ ,  $X^{79}$ ,  $X^{88}$  and  $X^{89}$  are independently of each other  $C_1$ - $C_{24}$ alkyl, especially  $C_1$ - $C_{12}$ alkyl, which can be interrupted by one or two oxygen atoms,  $X^{70}$ ,  $X^{71}$ ,  $X^{72}$ ,  $X^{73}$ ,  $X^{74}$ ,  $X^{75}$ ,  $X^{76}$ ,  $X^{77}$ ,  $X^{80}$ ,  $X^{81}$ ,  $X^{82}$ ,  $X^{83}$ ,  $X^{84}$ ,  $X^{85}$ ,  $X^{86}$  and  $X^{87}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,  $E^2$  is  $-S-$ ,  $-O-$ , or  $-NR^{25}-$ .

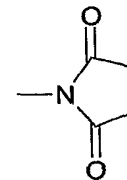
**A<sup>41</sup>, A<sup>42</sup> and A<sup>44</sup> are independently of each other hydrogen, halogen, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>haloalkyl, C<sub>6</sub>-C<sub>18</sub>aryl, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, or C<sub>2</sub>-**



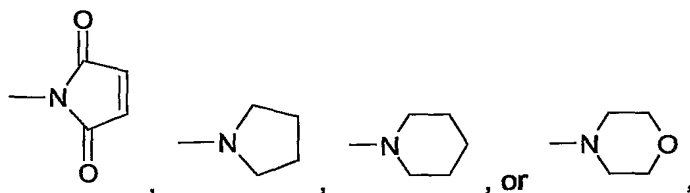
**C<sub>10</sub>heteroaryl, especially a group of formula**

A<sup>51</sup>, A<sup>53</sup>, A<sup>54</sup>, A<sup>55</sup>, A<sup>56</sup>, A<sup>57</sup>, A<sup>58</sup>, A<sup>59</sup> and A<sup>60</sup> are independently of each other H, fluorine, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, C<sub>1</sub>-C<sub>24</sub>haloalkyl, C<sub>6</sub>-C<sub>18</sub>aryl, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, or C<sub>2</sub>-C<sub>10</sub>heteroaryl, wherein E<sup>1</sup> is O, S, or -NR<sup>25'</sup>,

$R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6$ - $C_{18}$ aryl,  $C_7$ - $C_{18}$ aralkyl, or  $C_1$ - $C_{24}$ alkyl,

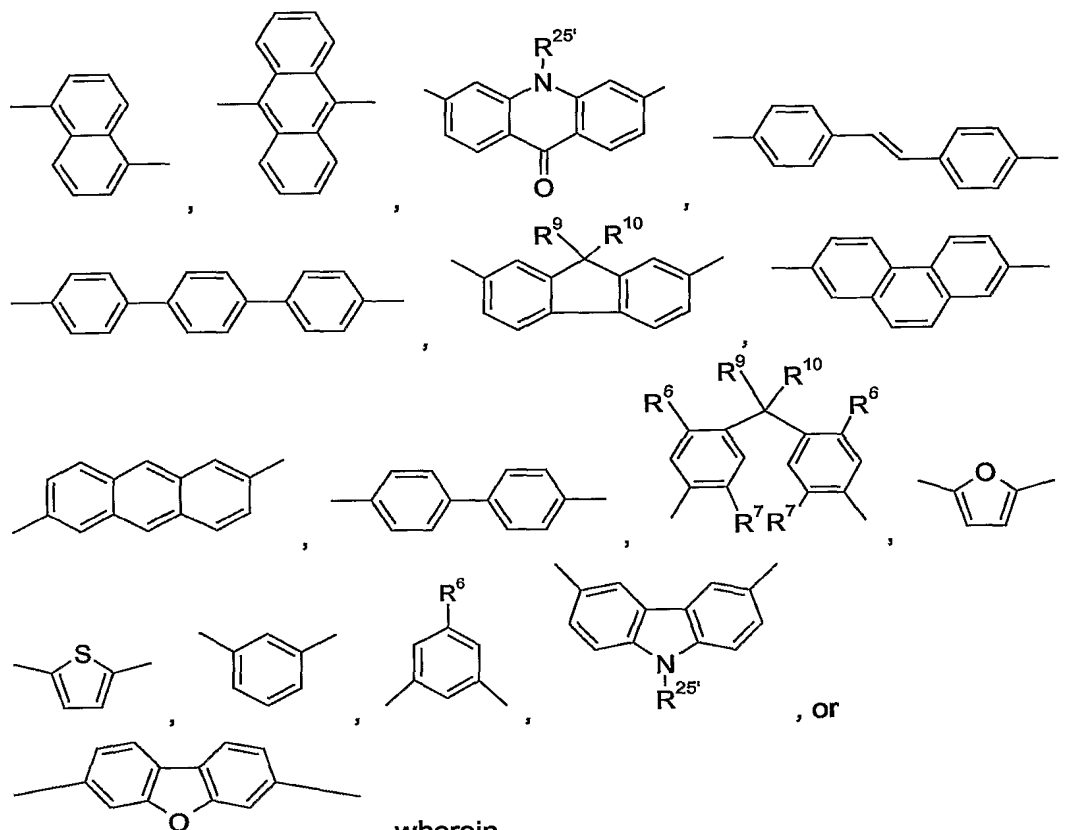


or  $R^{25}$  and  $R^{26}$  together form a five or six membered ring, in particular



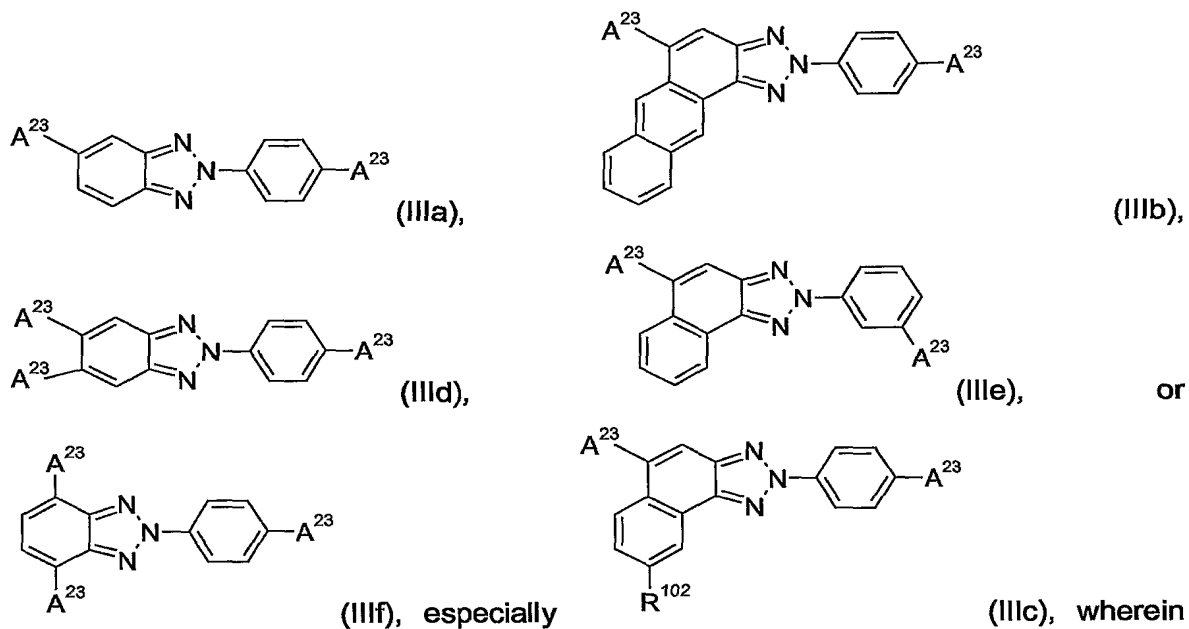
$R^{27}$  is  $C_1$ - $C_{24}$ alkyl, and

$Y^1$  is a group of formula

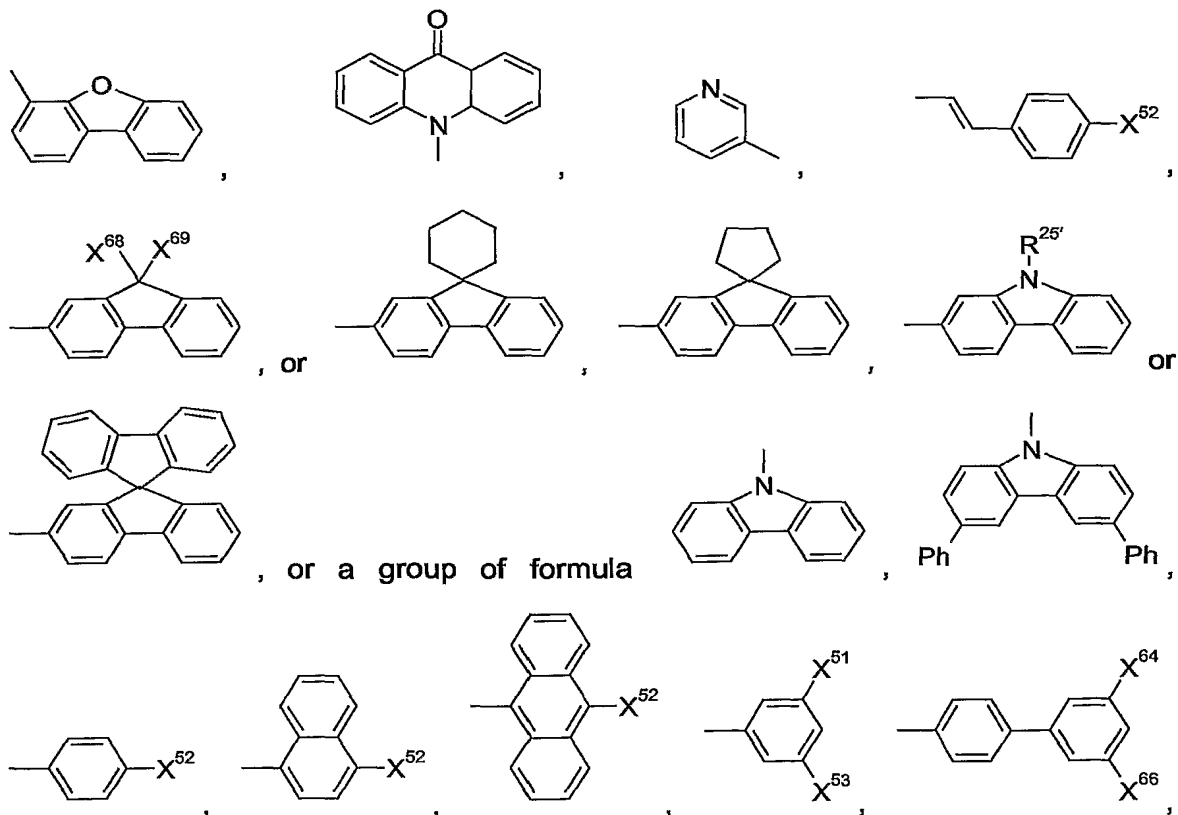


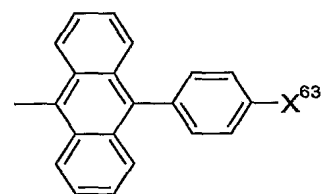
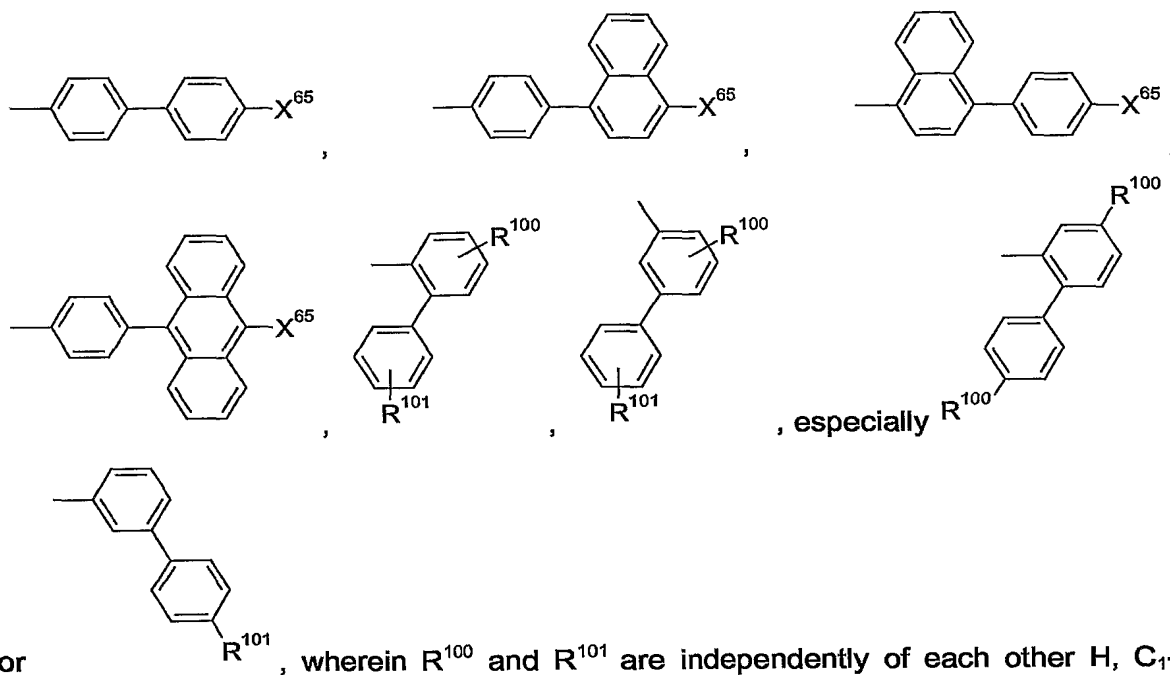
, wherein  
 $R^6$  is  $C_1$ - $C_{24}$ alkoxy, or  $-O$ - $C_7$ - $C_{25}$ aralkyl,  $R^7$  is H, or  $C_1$ - $C_{24}$ alkyl,  $R^9$  and  $R^{10}$  are independently of each other  $C_1$ - $C_{24}$ alkyl, especially  $C_4$ - $C_{12}$ alkyl, which can be interrupted by one or two oxygen atoms, and  
 $R^{25'}$  is  $C_1$ - $C_{24}$ alkyl, or  $C_6$ - $C_{10}$ aryl.

8. A 2H-benzotriazole compound according to claim 1, wherein the 2H-benzotriazole is a compound of formula

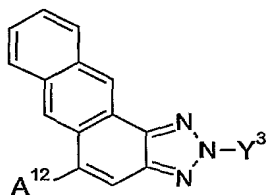
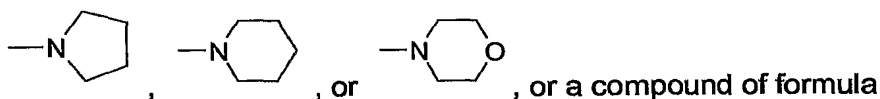


$R^{102}$  is  $C_1$ - $C_{24}$ alkyl, especially  $C_1$ - $C_{12}$ alkyl, in particular H,  $A^{23}$  is a group of formula

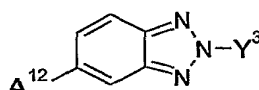




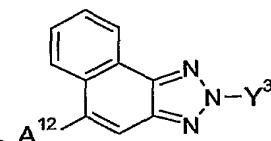
5 C<sub>24</sub>alkyl, especially C<sub>1</sub>-C<sub>12</sub>alkyl, very especially tert-butyl, or  
 wherein  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$  and  $X^{66}$  are independently of each other fluorine, C<sub>1</sub>-  
 C<sub>24</sub>alkyl, especially C<sub>1</sub>-C<sub>12</sub>alkyl, very especially tert-butyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, especially  
 cyclohexyl, which can optionally be substituted by one, or two C<sub>1</sub>-C<sub>8</sub>alkyl groups, or 1-  
 adamantyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, especially C<sub>1</sub>-C<sub>12</sub>perfluoroalkyl, such as CF<sub>3</sub>, C<sub>6</sub>-  
 C<sub>14</sub>perfluoroaryl, especially pentafluorophenyl, NR<sup>25</sup>R<sup>26</sup>, wherein R<sup>25</sup> and R<sup>26</sup> are C<sub>6</sub>-  
 10 C<sub>14</sub>aryl, especially phenyl, which can be substituted by one, or two C<sub>1</sub>-C<sub>24</sub>alkyl groups,  
 or R<sup>25</sup> and R<sup>26</sup> together form a five or six membered heterocyclic ring, especially



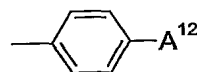
(IVa), especially



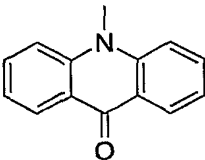
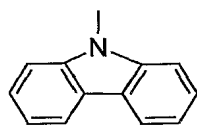
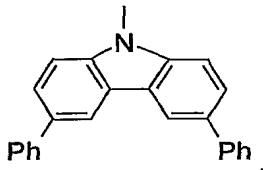
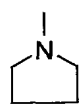
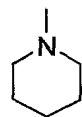
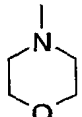
(IVb), or



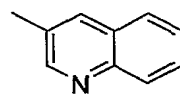
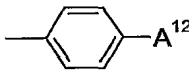
(IVc), wherein  $Y^3$  is as defined above, or is



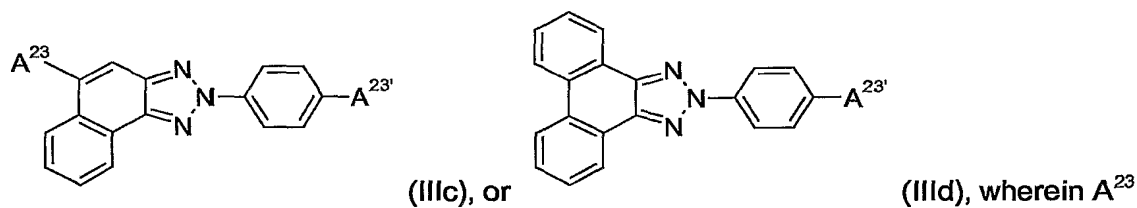
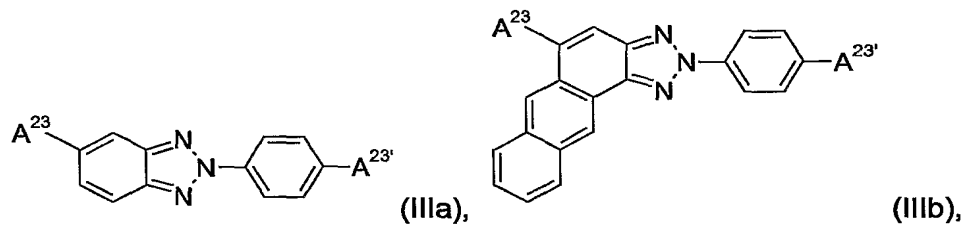
, and

$A^{12}$  is  $NR^{25}R^{26}$ , , , , , , or , wherein  $R^{25}$  and  $R^{26}$  are  $C_6$ - $C_{14}$ aryl, especially phenyl, 1-naphthyl, 2-naphthyl, which can optionally be substituted by one, or two  $C_1$ - $C_8$ alkyl groups, or  $C_1$ - $C_8$ alkoxy groups, or

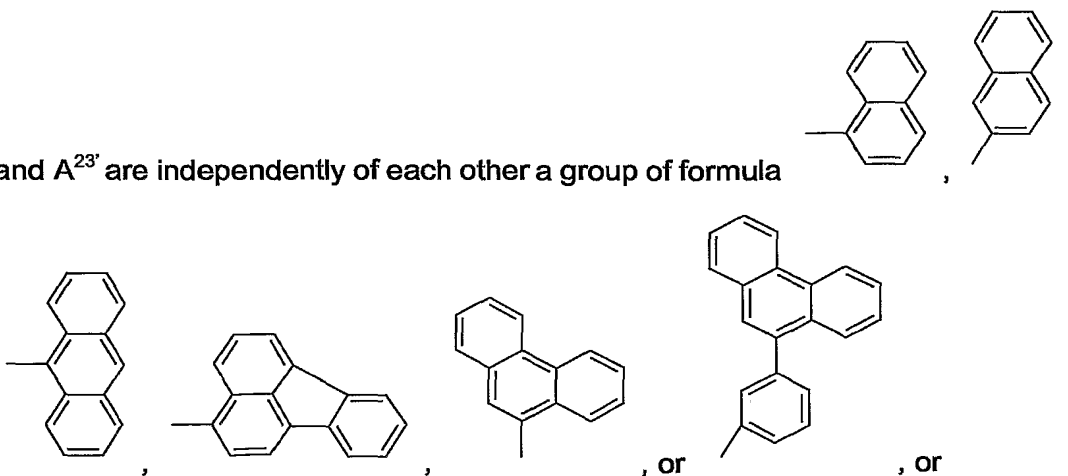
5 a compound of formula IVa, IVb, or IVc, wherein  $A^{12}$  is , , or

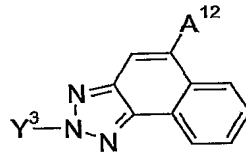
, and  $Y^3$  is , or

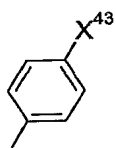
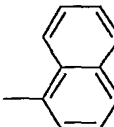
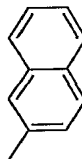
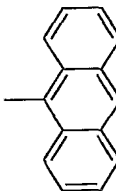
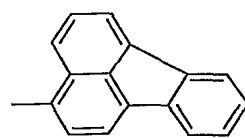
a compound of formula

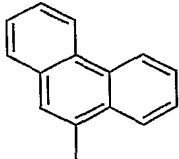


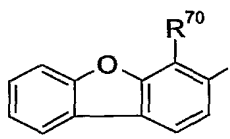
10 and  $A^{23'}$  are independently of each other a group of formula



a compound of formula Ia, Ib, Ic, or Id, especially , wherein A<sup>12</sup> is H,

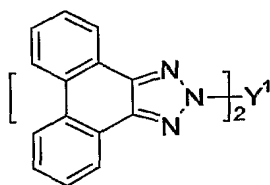
a group of formula , , , , or ,

especially , wherein X<sup>43</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, especially C<sub>1</sub>-C<sub>12</sub>alkyl, Y<sup>3</sup> is a

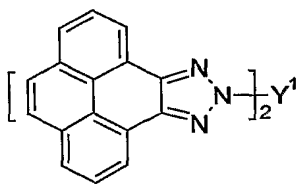
group of formula , wherein R<sup>70</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, especially C<sub>1</sub>-C<sub>24</sub>alkoxy.

5

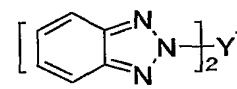
9. A 2H-benzotriazole compound according to claim 8, wherein the 2H-benzotriazole is a compound of formula



(IIc),

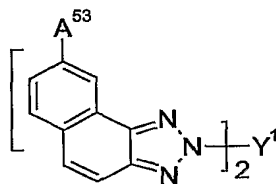


(IIId), especially



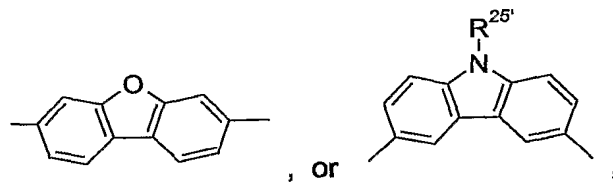
10

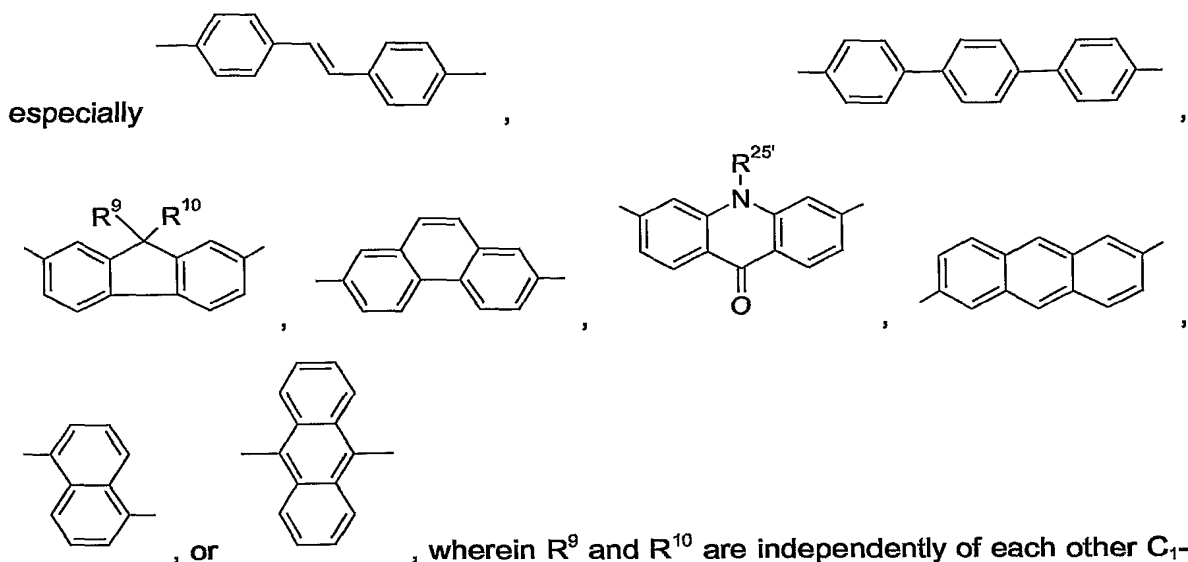
(IIa), very especially



(IIb), wherein A<sup>53</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, especially C<sub>4</sub>-C<sub>12</sub>alkyl, in

particular H, Y<sup>1</sup> is a group of formula





10. An electroluminescent device, comprising a 2H-benzotriazole compound according to any of claims 1 to 9.

10 11. The electroluminescent device according to claim 10, wherein the electroluminescent device comprises in this order

(a) an anode

(b) a hole injecting layer and/or a hole transporting layer

(c) a light-emitting layer

15 (d) optionally an electron transporting layer and

(e) a cathode.

12. The electroluminescent device according to claim 11, wherein the 2H-benzotriazole compound forms the light-emitting layer.

20

13. Use of the 2H-benzotriazole compounds according to any of claims 1 to 9 for electrophotographic photoreceptors, photoelectric converters, solar cells, image sensors, dye lasers and electroluminescent devices.